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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/066,228	01/31/2002	Gurinder S. Kahlon	10541/1176	2765
29074	7590	03/23/2005	EXAMINER	
VISTEON C/O BRINKS HOFER GILSON & LIONE PO BOX 10395 CHICAGO, IL 60610			CASTRO, ARNOLD	
			ART UNIT	PAPER NUMBER
			3747	

DATE MAILED: 03/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

SP

Office Action Summary	Application No. 10/066,228	Applicant(s) KAHLON ET AL.	
	Examiner Arnold Castro	Art Unit 3747	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on RCE filed 25 February 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>12/01/03, 02/25/04</u> . | 6) <input type="checkbox"/> Other: _____ |

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Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on February 25, 2004 has been entered.

Information Disclosure Statement

2. The information disclosure statements (IDS) submitted on December 01, 2003 and February 2, 2005 the submissions are in compliance with the provisions of 37 CFR 1.97. Accordingly, the examiner is considering the information disclosure statements.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation

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under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 1-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Visteon EP 1106824 A1 in view of Hosaka (US/4,721,083).

6. Visteon discloses a hybrid vehicle having an integrated starter alternator operably connected with the said vehicle engine, said integrated starter alternator capable of selectively operating as a starter motor for transmitting torque to the said vehicle engine and as an alternator for producing electric energy; a first electric energy storage (58) device in electrical communication with said integrated starter alternator; a second electric energy storage device (64) in electrical communication with said integrated starter alternator and said first electric energy storage devices wherein said second electric energy storage device is operative to charge said first electric energy storage device: at least one controller (54) in electrical communication with said integrated starter alternator; and at least a voltage sensor operably connected with the said vehicle engine sending a signal indicative of engine bus voltage wherein said controller compares said signal indicative of engine bus voltage to a first predetermined charge threshold value and controls said second electric energy storage device to charge said first an electric energy storage device and at least a voltage sensor operably connected with said second electric energy storage device sending a signal indicative of a charge condition wherein said controller compares said signal indicative

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of a charge condition to a second predetermined charge threshold value and controls said integrated starter alternator to charge said second electric energy storage device. Moreover, first electric energy storage device applies power for starting said vehicle engine; by cranking said vehicle engine using said integrated starter alternator until said vehicle engine reaches a predetermined engine speed; wherein fuel is supplied to said vehicle engine when said vehicle engine reaches said predetermined engine speed, wherein said second electric energy storage device charges said first electric energy storage device before starting said vehicle engine. See columns 3 and 4

However, Visteon does not disclose method of preventing stall of engine using the torque of the starter generator.

Hosaka discloses an electronic control system for preventing engine stall in a standard combustion engine that uses a starter and an alternator. See Hosaka, Col. 1, lines 9-15; Col. 22, lines 37-45. Hosaka also discloses a standard battery that can power a conventional starter motor or alternator to supply additional torque to an engine for preventing engine stall. See Hosaka, Fig. 1B, element 259; Col. 22, lines 37-45. However, Hosaka does not teach or suggest a second battery or any other electric energy storage device that is operative to charge the standard battery as shown in Visteon as Hosaka is not disclosed as hybrid vehicle.

At the time of the invention it would have been obvious to one of ordinary skill in the art to combine the system shown in Hosaka of monitoring engine parameters to detect stall condition and uses either the starter motor or the alternator to provide additional torque with the engine and starter generator system shown by Visteon.

Motivation would have been to prevent the engine in Visteon from stalling.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arnold Castro whose telephone number is (571) 272-4839. The examiner can normally be reached on Mon, Tues, Wed, Thurs 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yuen Henry can be reached on (571)-272-4856. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Arnold Castro
Examiner
Art Unit 3747

AC



Henry C. Yuen
Supervisory Patent Examiner
Group 3700